Notice of Allowability	Application No.	Applicant(s)	
	10/668,498	YANAGIDA ET AL.	
	Examiner	Art Unit	
	Hoan H. Tran	2852	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed 12/07/2005*.

2. ☒ The allowed claim(s) is/are *1-42*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☒ All b) ☐ Some* c) ☐ None of the:
      1. ☒ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-42 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claims 1 and 3-5

None of the prior art of record teaches or suggests a cleaning unit comprising a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of -1^0C to -30^0C.

Claim 2

None of the prior art of record teaches or suggests a cleaning unit comprising a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of 2^0C to -30^0C, and a temperature-dependent change of the loss tangent tanδ in a temperature range of 10^0C to 40^0C is in a range of $0.001/^0$C to $0.020/^0$C.

Claims 6 and 8-10

None of the prior art of record teaches or suggests a process cartridge comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of -1^0C to -30^0C.

Claim 7

None of the prior art of record teaches or suggests a process cartridge comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of 2^0C to -30^0C, and a temperature-dependent change of the loss tangent tanδ in a temperature range of 10^0C to 40^0C is in a range of $0.001/^0$C to $0.020/^0$C.

Claims 11 and 13-22

None of the prior art of record teaches or suggests an image forming apparatus comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of -1^0C to -30^0C.

Claim 12

None of the prior art of record teaches or suggests an image forming apparatus comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein when a sine-wave vibration of 10 Hz is applied to the cleaning blade, a peak temperature of a loss tangent tanδ is in a range of 2^0C to -30^0C, and a temperature-dependent change of the loss tangent tanδ in a temperature range of 10^0C to 40^0C is in a range of $0.001/^0$C to $0.020/^0$C.

Claims 23-27

None of the prior art of record teaches or suggests a cleaning unit comprising a cleaning blade that cleans a surface of a photosensitive drum, wherein an impact resilience of the cleaning

blade at 10^0C is equal to or more than 35 percent, and a rate of change of the impact resilience in a temperature range of 10^0C to 40^0C is equal to or less than 1.4/^{0}C.

Claims 28-32

None of the prior art of record teaches or suggests a process cartridge comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein an impact resilience of the cleaning blade at 10^0C is equal to or more than 35 percent, and a rate of change of the impact resilience in a temperature range of 10^0C to 40^0C is equal to or less than 1.4/^{0}C.

Claims 33-42

None of the prior art of record teaches or suggests an image forming apparatus comprising a cleaning unit including a cleaning blade that cleans a surface of a photosensitive drum, wherein an impact resilience of the cleaning blade at 10^0C is equal to or more than 35 percent, and a rate of change of the impact resilience in a temperature range of 10^0C to 40^0C is equal to or less than 1.4/^{0}C.

Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

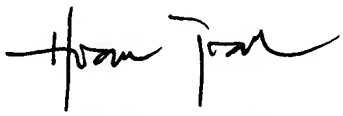
- Morimoto et al. [5,521,691] disclose a cleaning device.
- Itami et al. [6,403,270] disclose a cleaning device.
- Muto et al. [6,694,122] disclose a cleaning device.
- Matsudaira et al. [6,701,123] disclose a cleaning device.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Arthur Grimley can be reached at (571) 272-2136. The central office fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

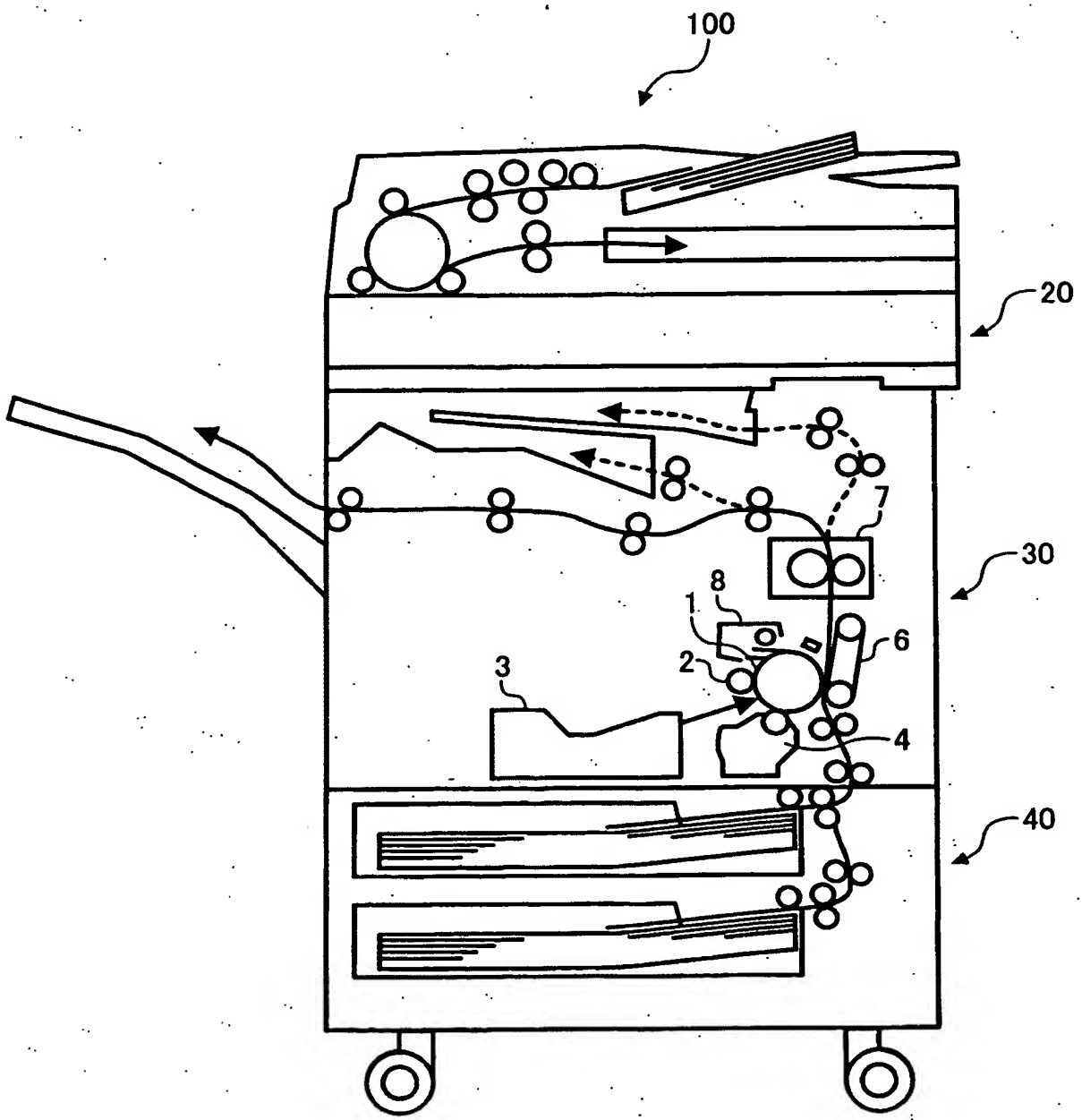


HHT
Feb. 20, 2006

HOAN TRAN
PRIMARY EXAMINER

Approved
06
02/01/06

FIG. 1



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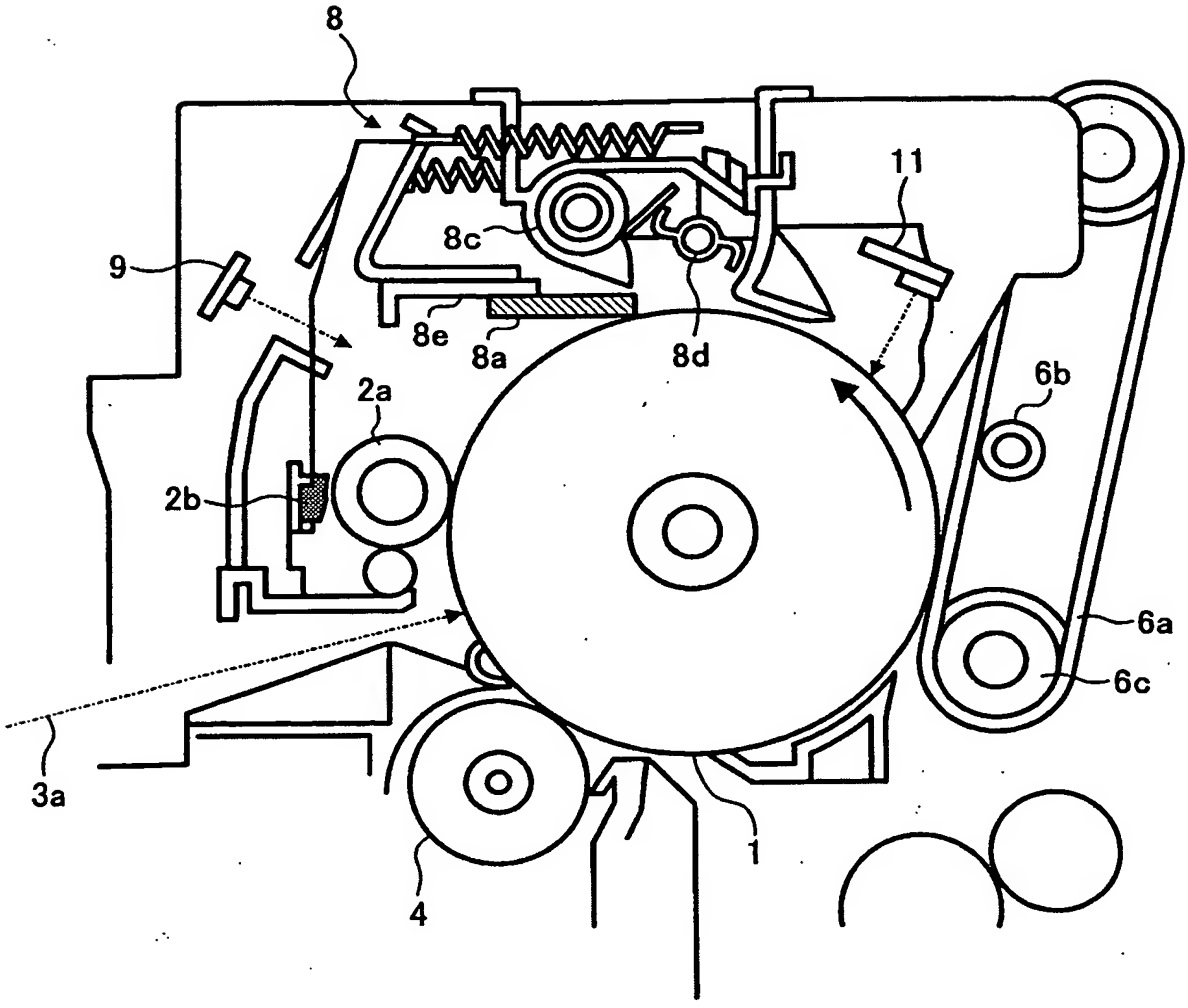
by
acl/cbb

FIG. 2



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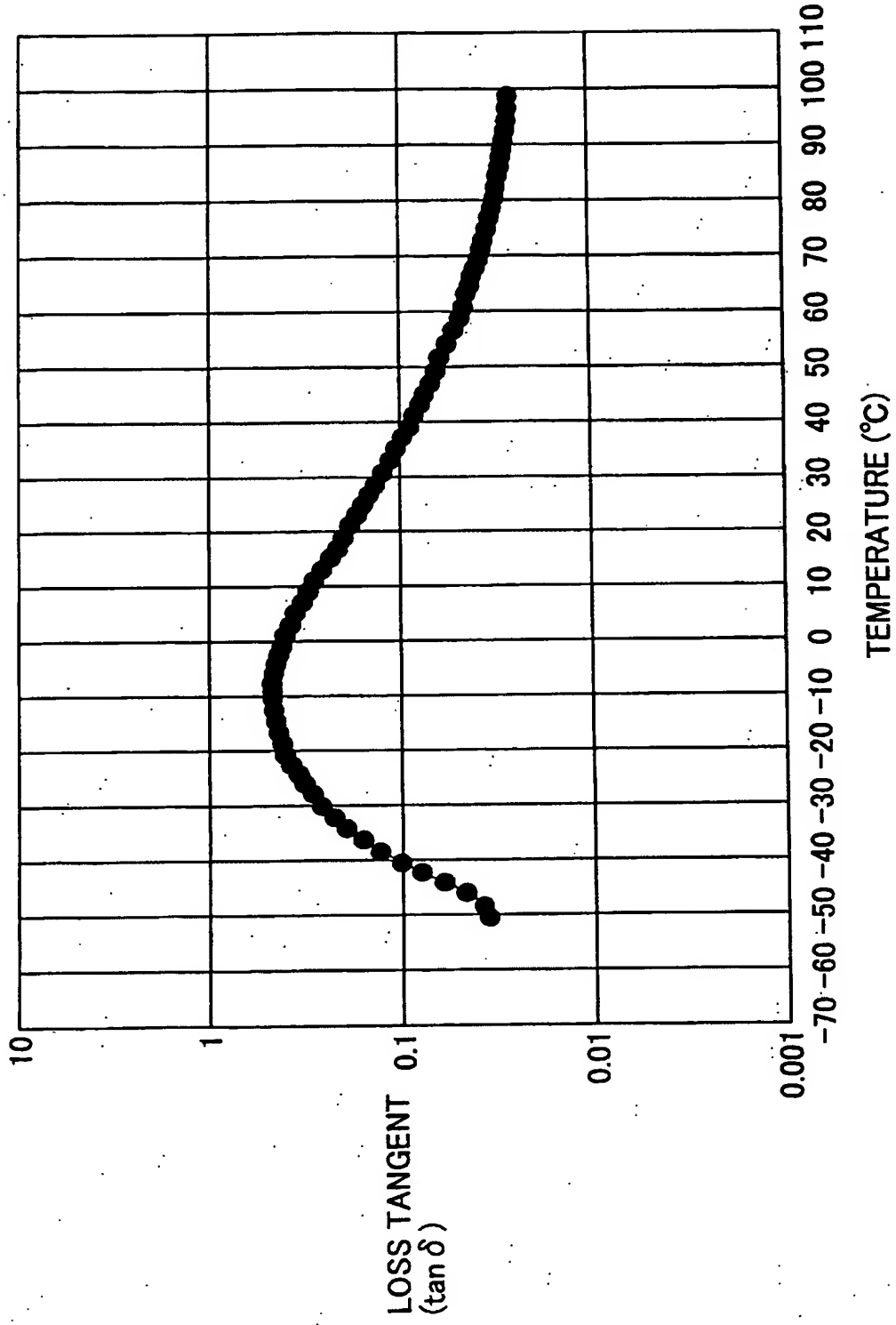
LG
09/15/06

FIG. 3



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#6
12/12/06

FIG. 4

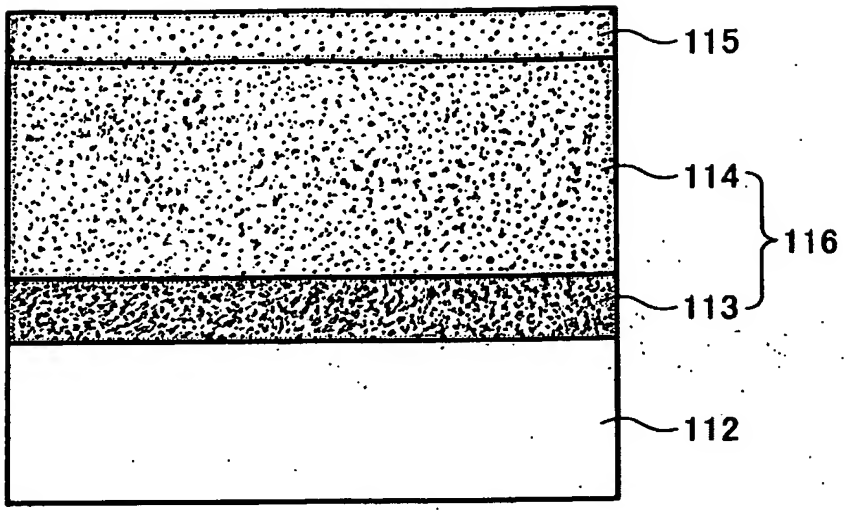
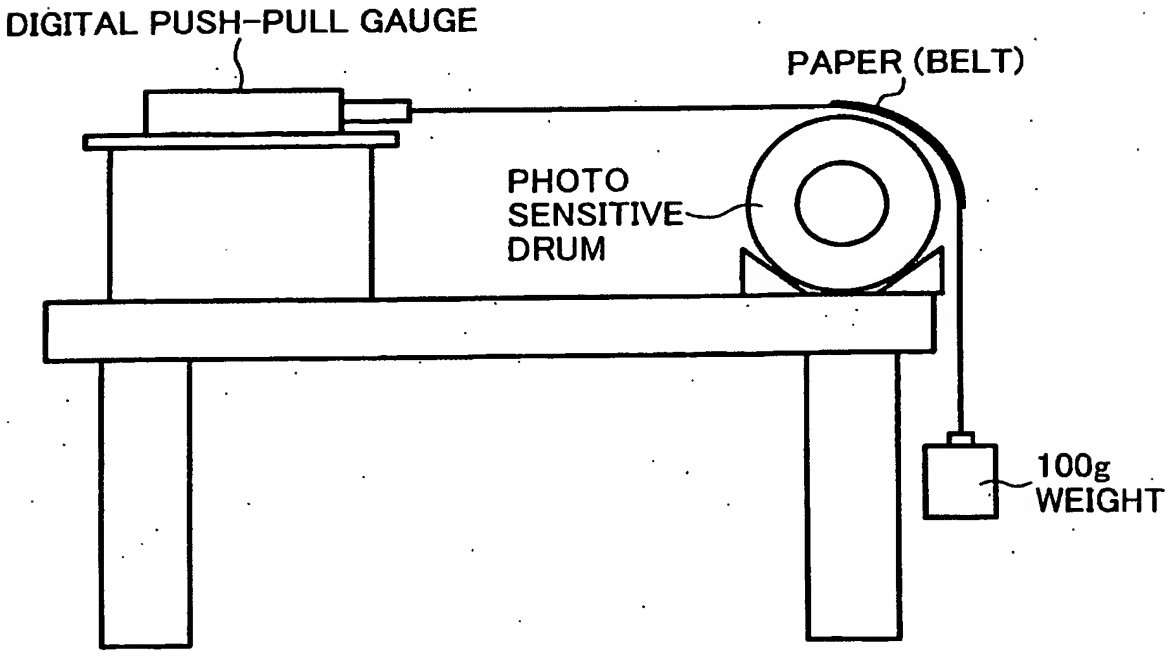


FIG. 5



Approved as drawn

FIG. 6A

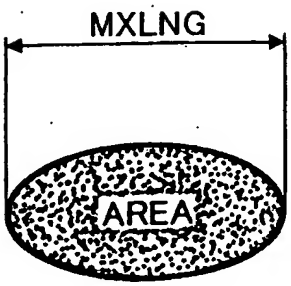


FIG. 6B

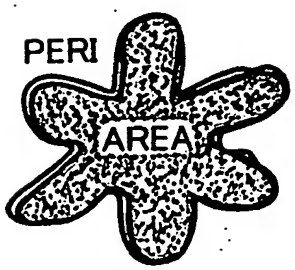


FIG. 7A

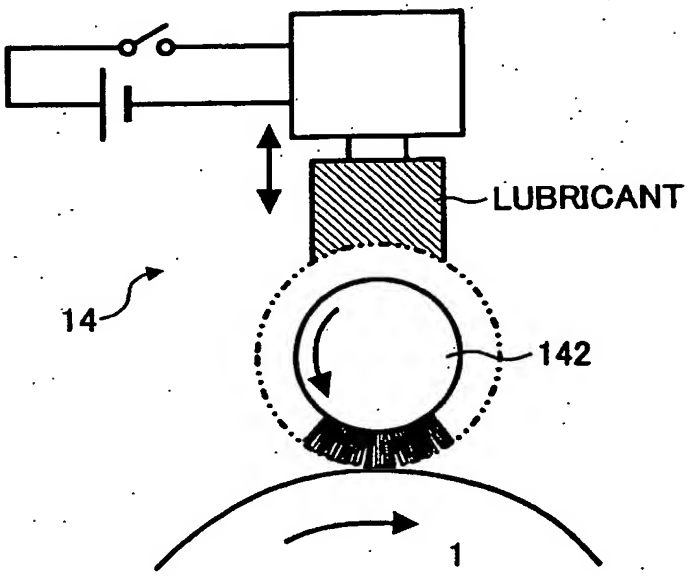


FIG. 7B

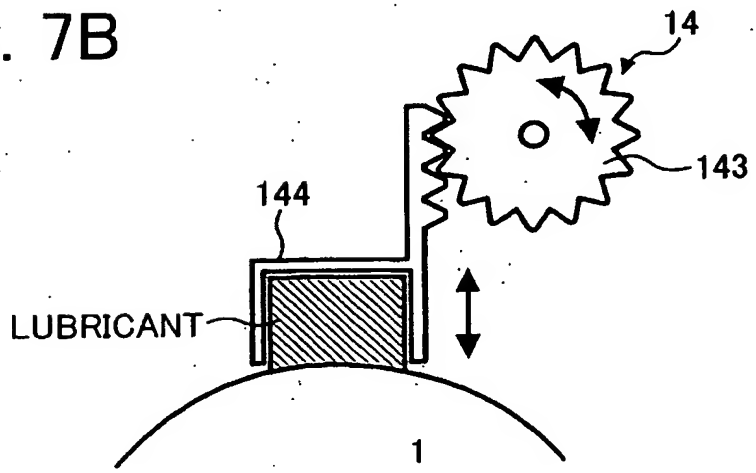


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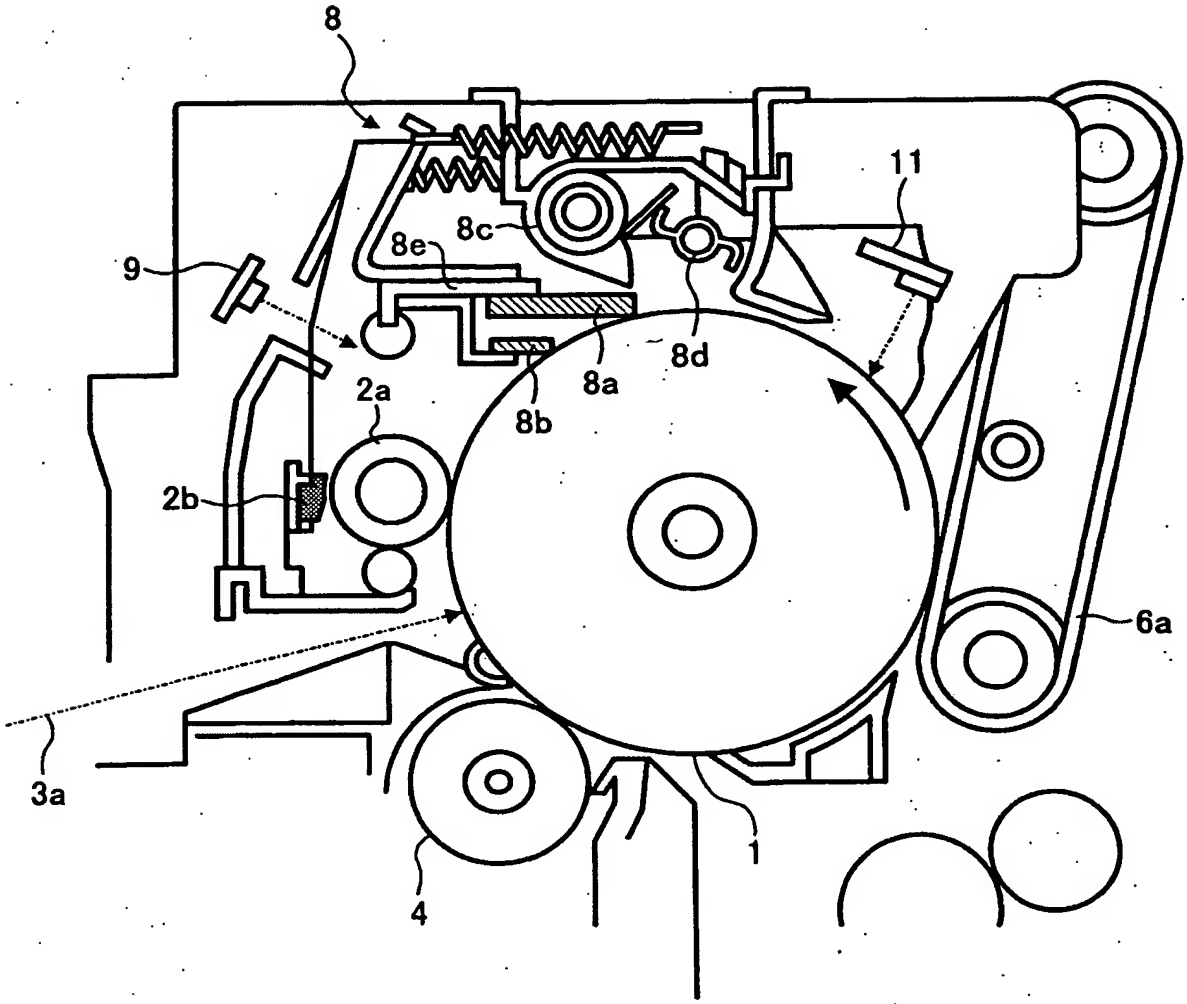
FIG. 8



Approved
VG
02/21/06

FIG. 9